



ERTS 070

LONG ISLAND UNIVERSITY

SCIENCE ENGINEERING RESEARCH GROUP

E7.3 109.68

CR-133747

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15 August 1973

National Aeronautics and Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

Gentlemen:

RE: Type I Progress Report for the Period
15 June 1973 to 15 August 1973

This document is submitted herewith in reference to Contract No.
NAS5-21792 and includes the following:

- A) Title of the Investigation: "An Interdisciplinary Study of the
Estuarine and Coastal Oceanography
of Block Island Sound and Adjacent
New York Coastal Waters"
- B) GSFC Identification Number: UN 558 (Dr. Edward Yost)
- C) The oceanographic data obtained from New York Bight area and
Block Island Sound is being analyzed with respect to surface effects
which are detectable on ERTS multispectral imagery.
- D) In the reporting period, additive color analysis was performed
on ERTS Frame Nos. 1204-15081, 1222-15082, 1239-15021, 1240-15082, 1257-
15021, 1258-15082, 1293-15020, and 1312-15080. These photographs were taken
on 12 February, 2 March, 19 March, 20 March, 6 April, 7 April, 12 May, and
31 May 1973. These frames were photographically reprocessed, then evaluated
for maximum water detail. These frames were viewed together with oceanogra-
phers from New York Ocean Science Laboratory, Montauk, New York in order to
correlate the sampling data with the color differences on the composite images.
Black-and-white transparencies of all four MSS bands were carefully viewed
and in some frames the maximum density differences were evident in a certain
band. In that case, positive and negative images of a particular band were
projected as different colors in the multispectral viewer and a color com-
posite was made to enhance the image detail.

E73-10968) AN INTERDISCIPLINARY STUDY OF
THE ESTUARINE AND COASTAL OCEANOGRAPHY OF
BLOCK ISLAND SOUND AND ADJACENT NEW YORK
COASTAL WATERS Progress Report, (Long
Island Univ.) 2 p HC \$3.00 CSCI 08J

N73-30310

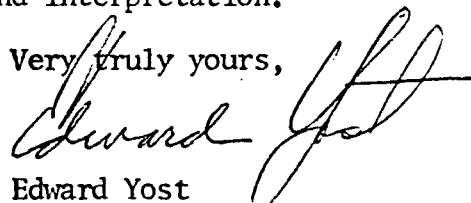
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ERTS 070 Type I Progress Report continued ...

E) The water sampling effort in support of this investigation has been completed and the results will be compiled in the form of small-scale oceanographic charts. A comparison and correlation of these charts will be performed with the color composites made from ERTS imagery.

F) As the last cruise in New York Bight and Block Island Sound area on 31 May 1973 completed the task of water sampling, it is planned that the detailed color analysis and interpretation will be limited to ERTS imagery received until 31 May 1973. However, "quick-look" analysis will be performed on the imagery taken after 31 May 1973 by the satellite and significant frames will be selected for further analysis and interpretation.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Edward Yost", written in dark ink.

Edward Yost
Professor and Director